

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in this application:

1-2. (Cancelled)

3. (Currently amended) The integrator of claim 2 ~~21~~ wherein the packet radio communication system further comprises an interworking element (IWE) coupled to the first and at least second fixed site transceivers and wherein a second portion of said integrator is embodied at the IWE.

4. (Currently amended) ~~In a packet radio communication system for communicating packet data, an improvement of an integrator for integrating operation of a first packet data system having at least a first packet data system element with operation of a second packet data system having at least a second packet data system element, thereby to form an integrated system of the packet radio communication system, said integrator comprising:~~

~~an integration element at least functionally coupled between the first packet data system element and the second packet data system element, said integration element for relaying packet data between the first packet data system element and the second packet data system element, the packet data of any selected information element type of a plurality of element types defined in either of the first packet data system and the second packet data system;~~

~~wherein the packet radio communication system comprises a network infrastructure including a first fixed site transceiver and at least a second fixed site transceiver with which a mobile station is selectably connectable thereto by way of a radio link and wherein said integration element further maps identities of the first and at least second fixed site transceiver defined in the first packet data system to corresponding identities defined in the second packet data system;~~

~~wherein the packet radio communication system further comprises an interworking element (IWE) coupled to the first and at least second fixed site transceivers and wherein a portion of said integrator is embodied at the IWE; and~~ The integrator of claim 1

wherein said integration element comprises a memory element forming a table, the table containing the identities of the first and ~~at least~~ second fixed site transceivers defined in the first packet data system and, indexed thereagainst, the identities of the first and ~~at least~~ second fixed site transceivers access points defined in the ~~second packet data system~~ WLAN.

5-7. (Cancelled)

8. (Currently amended) The integrator of claim ~~7~~ 21 wherein the cell identification request operations further associate the mobile station with a cell identifier, the cell identifier defined pursuant to the first packet data system.

9. (Previously amended) The integrator of claim 8 wherein said IWE further comprises a table, the table for storing indications of an identity of the mobile station and the cell identifier, the cell identifier indexed against the identity of the mobile station.

10. (Original) The integrator of claim 9 wherein the mobile station is identified by a MAC address.

11. (Currently amended) The integrator of claim 10 wherein the first packet-data-system ~~element~~ comprises a LLC logic layer and wherein said integration element further transports a Temporary Logic Link Identifier (TLLI) between the LLC logic layer and the ~~second packet-data-system element~~ WLAN.

12. (Currently amended) The integrator of claim 11 wherein said integration element further generates a page message to page the mobile station, the page message generated at an access point of the first and second access points corresponding to the cell identifier identified in the table formed at said IWE.

13. (Currently amended) The integrator of claim 12 wherein the first portion of said integration element located at the mobile station responds to the page message with a response message, the response message including indications of the TLLI, the TLLI identifying the mobile station.

14. (Currently amended) The integrator of claim 12 wherein the first portion of said integration element located at the mobile station further selectably transmits a communication suspend message to the IWE, the communication suspend message for requesting suspension of communication of data to the mobile station.

15. (Currently amended) The integrator of claim 14 wherein the first portion of said integration element located at the mobile station further selectably transmits a communication resume message to the IWE, the communication resume message for requesting resumption of communication of data to the mobile station.

16. (Previously amended) In a method for communicating packet data in a radio communication system having a network infrastructure including a first fixed-site transceiver and at least a second fixed-site transceiver with which a mobile station is selectably connectable by way of a radio link, an improvement of a method for integrating operation of a first packet data system having at least a first packet-data-system element with operation of a second packet data system having at least a second packet-data-system element, thereby to form an integrated system of the packet radio communication system, said method comprising:

mapping identities of the first and at least second fixed-site transceivers defined in the first packet data system to corresponding identities defined in the second packet data system;

relaying packet data between the first packet-data-system element and a selected one of the first and at least second fixed-site transceivers, the packet data of any selected information-element type of a plurality of element types defined in either of the first packet data system and the second packet data system.

17. (Currently amended) ~~In a method for communicating packet data in a radio communication system having a network infrastructure including a first fixed site transceiver and at least a second fixed site transceiver with which a mobile station is selectably connectable by way of a radio link, an improvement of a method for integrating operation of a~~ A method for integrating operation of a first packet data system with a WLAN, interconnected by way of an interworking element the first packet data system having at least a first fixed-site transceiver and a second fixed-site transceiver, and the WLAN having a first access point and a second access point, a mobile station connectable to at least one of the WLAN and the first packet data system by way of a radio link ~~packet data system element with operation of a second packet data system having at least a second packet data system element, thereby to form an integrated system of the packet radio communication system, said method comprising the operations of:~~

mapping identities of the first and ~~at least~~ second fixed-site transceivers defined in the first packet data system to the first and second access point ~~corresponding identities defined in the second packet data system~~, wherein said operation of mapping comprises indexing the identities of the first and ~~at least~~ second fixed site transceivers defined in the first packet data system against the identities of the first and second access point defined in the WLAN; ~~at least second fixed site transceivers defined in the second packet data system; and~~

performing association operations to form radio links with the access points;

performing cell identification request operations selectably to identify the mobile station to the interworking element; and

relaying packet data between the first packet data system and the WLAN ~~packet data system element and a selected one of the first and at least second fixed site transceivers~~, the packet data of any selected information-element type of a plurality of element types defined in either of the first packet data system and the ~~second packet data system~~ WLAN.

18. (Cancelled)

19. (Currently amended) ~~In~~ An integrator for a packet radio communication system defined in terms of logical layers, an improvement of an said integrator for integrating operation of a first packet data GPRS system having at least a first packet data-system GPRS-system logical layer and a second packet data-system and IEEE 802.11 standard-compliant WLAN having at least a second packet data-system WLAN-system logical layer, said integrator comprising:

an a WLAN integration logical protocol layer logically positioned between beneath the first packet data-system GPRS-system logical layer and above the second packet data-system WLAN-system logical layer, said integration logical layer for relaying packet data between the first packet data-system GPRS-system logical layer and the second packet data-system WLAN system logical layer, the packet data of any selected information-element type of a plurality of element types defined in either of the first packet data GPRS system and the second packet data IEEE 802.11 standard-compliant WLAN system.

20. (Cancelled)

21. (New) An integrator for integrating operation of a first packet data system with a WLAN, interconnected by way of an interworking element (IWE), the first packet data system having a first fixed-site transceiver and a second fixed-site transceiver, and the WLAN having a first access point and a second access point, a mobile station connectable to at least one of the WLAN and the first packet data system by way of a radio link, said integrator comprising:

an integration element functionally coupled between the first packet data system and the WLAN, said integration element configured to relay packer data therebetween, the packet data of any selected information-element type of a plurality of element types defined in either of the first packet data system and the WLAN, said integration element configured to map identities of the first and second fixed-site transceivers to the first and second access points, a first portion of said integration element embodied at the mobile station, said first portion for performing association operations to form radio links with the access points and for performing cell identification request operations selectably to identify the mobile station to the interworking element.

22.(New) A method for a packet radio communication system defined in terms of logical layers, said method for integrating operation of a GPRS system having at least a first GPRS-system logical layer and an IEEE 802.11 standard-compliant WLAN having at least a second WLAN-system logical layer, said method comprising:

logically positioning a WLAN integration protocol layer beneath the GPRS-system logical layer and above the WLAN-system logical layer;

relaying packet data between the GPRS-system logical layer and the WLAN-system logical layer, the packet data of any selected information-element type of a plurality of element types defined in either of the GPRS system and the IEEE 802.11 standard-compliant system.